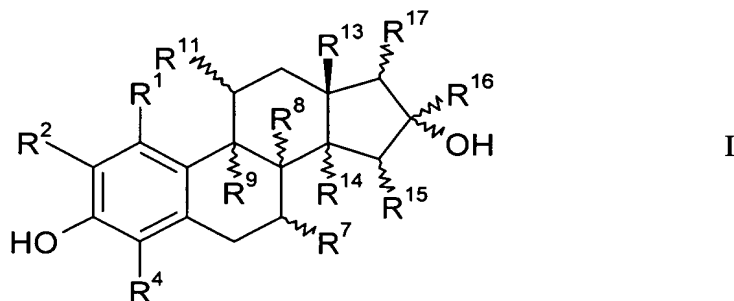


This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

**1.-52. (Canceled)**

**53. (Currently Amended)** A 3,16-Dihydroxyestra-1,3,5(10)-triene compound of formula I:



in which radicals  $R^1$  to  $R^{17}$ , independently of one another, have the following meanings:

- $R^1$  is a halogen atom, a hydroxyl group, a methyl group, a trifluoromethyl group, a methoxy group, an ethoxy group or a hydrogen atom;
- $R^2$  is a halogen atom, a hydroxyl group, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms or a hydrogen atom;
- $R^4$  is a halogen atom, a straight-chain or branched-chain, saturated or unsaturated alkyl group with 1 to 10 carbon atoms, a trifluoromethyl or pentafluoroethyl group, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms or a hydrogen atom;

- R<sup>7</sup> is a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms, an optionally substituted aryl or heteroaryl radical or a hydrogen atom;
- R<sup>8</sup> is a hydrogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position or a cyano group in  $\alpha$ - or  $\beta$ -position;
- R<sup>9</sup> is a hydrogen atom in  $\alpha$ - or  $\beta$ -position, a methyl, ethyl, trifluoromethyl or pentafluoroethyl group in  $\alpha$ - or  $\beta$ -position;
- R<sup>11</sup> is a nitrooxy group in  $\alpha$ - or  $\beta$ -position, a hydroxyl or mercapto group in  $\alpha$ - or  $\beta$ -position, a halogen atom in  $\alpha$ - or  $\beta$ -position, a chloromethyl group in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy or alkylthio group with 1 to 6 carbon atoms, an optionally substituted aryl or heteroaryl radical or a hydrogen atom;
- R<sup>13</sup> is a methyl, ethyl, trifluoromethyl or pentafluoroethyl group in  $\beta$ -position;
- and either
- R<sup>14</sup> is a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position or a hydrogen atom in  $\alpha$ - or  $\beta$ -position
- and

R<sup>15</sup> is a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position that can be interrupted by one or more oxygen atoms, sulfur atoms, sulfoxide or sulfone groups or imino groups = NR<sup>15'</sup> wherein R<sup>15'</sup> = hydrogen atom, methyl, ethyl, propyl, i-propyl; or a hydrogen atom

or

R<sup>14</sup> and R<sup>15</sup> together is a 14 $\alpha$ ,15 $\alpha$ -methylene or 14 $\beta$ ,15 $\beta$ -methylene group that are optionally substituted with one or two halogen atoms;

R<sup>16</sup> is a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a trifluoromethyl or pentafluoroethyl group, a cyanomethyl group or a hydrogen atom in  $\alpha$ - or  $\beta$ -position;

R<sup>17</sup> is a ~~halogen~~ fluoro atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position or a hydrogen atom,

and

the wavy lines mean the arrangement of the respective substituent in  $\alpha$ - or  $\beta$ -position,

excluding the compounds estra-1,3,5(10)-triene-3,16 $\alpha$ -diol, estra-1,3,5(10)-triene-3,16 $\beta$ -diol, 16 $\beta$ -ethinylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol and 16 $\alpha$ -ethinylestra-1,3,5(10)-triene-3,16 $\beta$ -diol.

**54. (Previously presented)** A compound according to claim 53, in which radicals R<sup>1</sup> to R<sup>17</sup>, independently of one another, have the following meanings

- R<sup>1</sup> is a fluorine atom, a hydroxyl group, a methyl group, a trifluoromethyl group, a methoxy group, an ethoxy group or a hydrogen atom;
- R<sup>2</sup> is a fluorine atom, a hydroxyl group, a methoxy or ethoxy group or a hydrogen atom;
- R<sup>4</sup> is a fluorine atom, a methyl, ethyl, trifluoromethyl, methoxy or ethoxy group or a hydrogen atom;
- R<sup>7</sup> is a fluorine atom in  $\alpha$ - or  $\beta$ -position, a methyl, ethyl, propyl or i-propyl group in  $\alpha$ - or  $\beta$ -position, an optionally substituted aryl radical, a trifluoromethyl group in  $\alpha$ - or  $\beta$ -position or a hydrogen atom;
- R<sup>8</sup> is a hydrogen atom in  $\alpha$ - or  $\beta$ -position, a methyl or ethyl group in  $\alpha$ - or  $\beta$ -position;
- R<sup>9</sup> is a hydrogen atom in  $\alpha$ - or  $\beta$ -position, a methyl, ethyl, trifluoromethyl or pentafluoroethyl group in  $\alpha$ - or  $\beta$ -position;
- R<sup>11</sup> is a nitrooxy group in  $\alpha$ - or  $\beta$ -position, a hydroxyl group in  $\alpha$ - or  $\beta$ -position, a fluorine atom in  $\alpha$ - or  $\beta$ -position, a chloromethyl group in  $\alpha$ - or  $\beta$ -position, a methyl group in  $\alpha$ - or  $\beta$ -position, a methoxy group in  $\alpha$ - or  $\beta$ -position, a phenyl- or 3-methylthien-2-yl radical in  $\alpha$ - or  $\beta$ -position or a hydrogen atom;
- R<sup>13</sup> is a methyl or ethyl group in  $\beta$ -position;
- and either
- R<sup>14</sup> is a hydrogen atom in  $\alpha$ - or  $\beta$ -position or a methyl group in  $\alpha$ - or  $\beta$ -position
- and
- R<sup>15</sup> is a fluorine atom in  $\alpha$ - or  $\beta$ -position, a methyl group in  $\alpha$ - or  $\beta$ -position, or a hydrogen atom,
- or
- R<sup>14</sup> and R<sup>15</sup> together mean a 14 $\alpha$ ,15 $\alpha$ -methylene group or a 14 $\beta$ ,15 $\beta$ -methylene group,

R<sup>16</sup> means a methyl, ethyl, ethinyl, propinyl or trifluoromethyl group;

R<sup>17</sup> means a fluorine atom in  $\alpha$ - or  $\beta$ -position, a methyl group, or a hydrogen atom.

**55. (Previously presented)** A compound of formula I according to claim 53, in which

R<sup>7</sup> means a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms, or an optionally substituted aryl or heteroaryl radical

and

R<sup>1</sup>, R<sup>2</sup>, R<sup>4</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>11</sup>, R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup> and R<sup>17</sup> in each case are a hydrogen atom.

**56. (Previously presented)** A compound of formula I according to claim 53, in which

R<sup>11</sup> is a nitrooxy group in  $\alpha$ - or  $\beta$ -position, a hydroxyl or mercapto group in  $\alpha$ - or  $\beta$ -position, a halogen atom in  $\alpha$ - or  $\beta$ -position, a chloromethyl group in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy or alkylthio group with 1 to 6 carbon atoms, or an optionally substituted aryl or heteroaryl radical, and

R<sup>1</sup>, R<sup>2</sup>, R<sup>4</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup> and R<sup>17</sup> in each case are a hydrogen atom.

**57. (Previously presented)** A compound of formula I according to claim 53, in which

$R^{15}$  is a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position that can be interrupted by one or more oxygen atoms, sulfur atoms, sulfoxide or sulfone groups or imino groups =  $NR^{15'}$  ( $R^{15'}$  = hydrogen atom, methyl, ethyl, propyl, i-propyl), and  $R^1, R^2, R^4, R^7, R^8, R^9, R^{11}, R^{14}, R^{16}$  and  $R^{17}$  in each case are a hydrogen atom.

**58. (Previously presented)** A compound of formula I according to claim 53, in which

$R^7$  is a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms or an optionally substituted aryl or heteroaryl radical,

$R^{11}$  is a nitrooxy group in  $\alpha$ - or  $\beta$ -position, a hydroxyl or mercapto group in  $\alpha$ - or  $\beta$ -position, a halogen atom in  $\alpha$ - or  $\beta$ -position, a chloromethyl group in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy or alkylthio group with 1 to 6 carbon atoms or an optionally substituted aryl or heteroaryl radical, and  $R^1, R^2, R^4, R^8, R^9, R^{14}, R^{15}, R^{16}$  and  $R^{17}$  in each case are a hydrogen atom.

**59. (Previously presented)** Compounds of general formula I according to claim 53, in which

$R^7$  is a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms or an optionally substituted aryl or heteroaryl radical,

$R^{15}$  is a halogen atom in  $\alpha$ - or  $\beta$ -position or a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position that can be interrupted by one or more oxygen atoms, sulfur atoms, sulfoxide or sulfone groups or imino groups =  $NR^{15'}$  ( $R^{15'}$  = hydrogen atom, methyl, ethyl, propyl, i-propyl), and

$R^1, R^2, R^4, R^8, R^9, R^{11}, R^{14}, R^{16}$  and  $R^{17}$  in each case are a hydrogen atom.

**60. (Previously presented)** A compound of formula I according to claim 53, in which

$R^{11}$  is a nitrooxy group in  $\alpha$ - or  $\beta$ -position, a hydroxy or mercapto group in  $\alpha$ - or  $\beta$ -position, a halogen atom in  $\alpha$ - or  $\beta$ -position, a chloromethyl group in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy or alkylthio group with 1 to 6 carbon atoms or an optionally substituted aryl or heteroaryl radical,

R<sup>15</sup> is a halogen atom in  $\alpha$ - or  $\beta$ -position or a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position that can be interrupted by one or more oxygen atoms, sulfur atoms, sulfoxide or sulfone groups or imino groups = NR<sup>15'</sup> (R<sup>15'</sup> = hydrogen atom, methyl, ethyl, propyl, i-propyl), and

R<sup>1</sup>, R<sup>2</sup>, R<sup>4</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>14</sup>, R<sup>16</sup>, and R<sup>17</sup> in each case are a hydrogen atom.

61. **(Previously presented)** A compound of formula I according to claim 53, in which

R<sup>7</sup> is a halogen atom in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy group with 1 to 6 carbon atoms or an optionally substituted aryl or heteroaryl radical,

R<sup>11</sup> is a nitrooxy group in  $\alpha$ - or  $\beta$ -position, a hydroxyl or mercapto group in  $\alpha$ - or  $\beta$ -position, a halogen atom in  $\alpha$ - or  $\beta$ -position, a chloromethyl group in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position, a straight-chain or branched-chain, saturated or unsaturated alkoxy or alkylthio group with 1 to 6 carbon atoms or an optionally substituted aryl or heteroaryl radical,

R<sup>15</sup> is a halogen atom in  $\alpha$ - or  $\beta$ -position, or a straight-chain or branched-chain, saturated or unsaturated, optionally partially or completely fluorinated alkyl

group with 1 to 10 carbon atoms in  $\alpha$ - or  $\beta$ -position that can be interrupted by one or more oxygen atoms, sulfur atoms, sulfoxide or sulfone groups or imino groups = NR<sup>15'</sup> (R<sup>15'</sup> = hydrogen atom, methyl, ethyl, propyl, i-propyl), and R<sup>1</sup>, R<sup>2</sup>, R<sup>4</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>14</sup>, R<sup>16</sup> and R<sup>17</sup> in each case are a hydrogen atom.

**62. (Previously presented)** A compound according to claims 53, wherein one or both hydroxyl groups is (are) esterified at C atoms 3 and 16 with an aliphatic or aromatic carboxylic acid or with an  $\alpha$ - or  $\beta$ -amino acid.

**63. (Previously presented)** A compound according to claim 53, which compound is:

14 $\alpha$ ,15 $\alpha$ -methylen-estra-1,3,5(10)-triene-3,16 $\alpha$  -diol,  
14 $\beta$ ,15 $\beta$ -methylen-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
7 $\alpha$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$  -diol,  
11 $\beta$ -methoxy-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
7 $\alpha$ -methyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
8 $\alpha$ -estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
estra-1,3,5(10)-triene-2,3,16 $\alpha$ -triol,  
17 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
18 $\alpha$ -homo-estra-1,3,5(10)-triene-3,16 $\alpha$  -diol,  
18 $\alpha$ -homo-14 $\alpha$ ,15 $\alpha$ -methylen-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
14 $\alpha$ ,15 $\alpha$ -methylen-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
14 $\beta$ ,15 $\beta$ -methylen-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,

7 $\alpha$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -methoxy-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -methyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 8 $\alpha$ -estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 estra-1,3,5(10)-triene-2,3,16 $\alpha$ -triol,  
 17 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 18 $\alpha$ -homo-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 18 $\alpha$ -homo-14,15-methylen-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -ethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -methoxy-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol  
 7 $\alpha$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -cyanomethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -ethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -methoxy-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -cyanomethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,

7 $\alpha$ -ethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -methoxy-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -cyanomethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -ethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -methoxy-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -cyanomethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -ethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -allyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methoxy-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,

15 $\alpha$ -ethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -allyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methoxy-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -ethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -allyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methoxy-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -ethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -allyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methoxy-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -thiomethyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -trifluoromethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -pentafluoroethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,

7 $\alpha$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -phenyl-11 $\beta$ -Fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -cyanomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -phenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\beta$ -cyanomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -phenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -cyanomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,

7 $\beta$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -phenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\beta$ -cyanomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -allyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -allyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,

15 $\beta$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -allyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -ethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -allyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propenyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methoxy-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -thiomethyl-11 $\beta$ -fluoro-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 14 $\alpha$ ,15 $\alpha$ -methylene-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 14 $\beta$ ,15 $\beta$ -methylene-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -methoxy-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -phenyl-8 $\alpha$ -estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-2,3,16 $\alpha$ -triol,  
 17 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 18a-homo-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 18a-homo-14 $\alpha$ ,15 $\alpha$ -methylene-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 14 $\alpha$ ,15 $\alpha$ -methylene-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 14 $\beta$ ,15 $\beta$ -methylene-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,

11 $\beta$ -methoxy-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -phenyl-8 $\alpha$ -estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-2,3,16 $\alpha$ -triol,  
 17 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 18 $\alpha$ -homo-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 18 $\alpha$ -homo-14 $\alpha$ ,15 $\alpha$ -methylene-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -ethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -allyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propenyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methoxy-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -thiomethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -ethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -allyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propenyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methoxy-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -thiomethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -ethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,

15 $\beta$ -propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -allyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propenyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methoxy-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -thiomethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -ethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -allyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propenyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methoxy-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -thiomethyl-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -ethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -allyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -i-propenyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methoxy-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -thiomethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\alpha$ -methyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -ethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,

15 $\alpha$ -allyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -i-propenyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -methoxy-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\alpha$ -thiomethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -ethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -allyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -i-propenyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methoxy-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -thiomethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 15 $\beta$ -methyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -ethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -allyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -i-propenyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -methoxy-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 15 $\beta$ -thiomethyl-11 $\beta$ -fluoro-7 $\alpha$ -phenyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -[2-(3-methylthien)-yl]-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -[2-(3-methylthien)-yl]-estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 13 $\alpha$ -estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 13 $\alpha$ -estra-1,3,5(10)-triene-3,16 $\beta$ -diol,

14 $\beta$ -estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 14 $\beta$ -estra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -methylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -methylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -methyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -methyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -ethylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -ethylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -ethyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -ethyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -vinylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -vinylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -vinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -vinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -ethinylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -ethinylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 11 $\beta$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 11 $\beta$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 9 $\alpha$ -methylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 9 $\alpha$ -methylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 9 $\alpha$ -methyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 9 $\alpha$ -methyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -methyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 7 $\alpha$ -methyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 7 $\alpha$ -ethyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,

$7\alpha$ -ethyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 $7\alpha$ ,11 $\beta$ -dimethylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 $7\alpha$ ,11 $\beta$ -dimethylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 $7\alpha$ ,11 $\beta$ -dimethyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 $7\alpha$ ,11 $\beta$ -dimethyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
16 $\beta$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
16 $\alpha$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 $7\alpha$ -methyl-16 $\beta$ -ethinylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 $7\alpha$ -methyl-16 $\alpha$ -ethinylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
 $7\alpha$ -methyl-16 $\beta$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 $7\alpha$ -methyl-16 $\alpha$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
11 $\beta$ -methyl-16 $\beta$ -ethinylestra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
11 $\beta$ -methyl-16 $\alpha$ -ethinylestra-1,3,5(10)-triene-3,16 $\beta$ -diol,  
11 $\beta$ -methyl-16 $\beta$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\alpha$ -diol, or  
11 $\beta$ -methyl-16 $\alpha$ -ethinyl-18a-homoestra-1,3,5(10)-triene-3,16 $\beta$ -diol.

**64. (Previously presented)** A compound according to claim 63, which compound is:

$7\alpha$ -fluoro-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 $7\alpha$ -methyl-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol,  
 $7\alpha$ -methyl-estra-1,3,5(10)-triene-3,16 $\beta$ -diol, or  
18 $\alpha$ -homo-estra-1,3,5(10)-triene-3,16 $\alpha$ -diol.

**65. (Previously presented)** A pharmaceutical composition containing at least one compound according to claim 53 and a pharmaceutically compatible vehicle.

**66. - 89. (Canceled)**